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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=3; day=24; hr=17; min=13; sec=9; ms=748; ]

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Reviewer Comments:

# SEQUENCE LISTING

<110> ChondroGene Inc.

C.C.Liew, H.Zhang, W.Marshall

The second line in the above <110> response contains three applicants' names. Per 1.823 of the Sequence Rules, list one applicant per line.

<210> 37036

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 311, 338, 361, 363, 364, 365, 366, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 404, 405, 411, 412, 413, 414, 415, 416, 422, 423, 424, 426, 428, 429, 430, 431, 432, 433, 441, 445, 449, 450, 451, 461, 463, 469, 472

<223> n = A,T,C or G

<400> 37036

aaggtgctcc tcttttttct tgtcattgct ggtcaagatt actaatatct gggaaggctt 60  
taaagacgca tggttatggtg ctaatgtact ttcactttta aactctagat cagaattggt 120  
gacttgccatt cagaacataa atgcacaaaa tctgtacatg tctcccatca gaaagattca 180  
ttggcatgcc ccaggggatt ctctctcttc atcctgtaaa ggtcaacaat aaaaacccaa 240  
ttatgggggct gcttttgtca cactagcata gagaatgtgt tgaaatttaa ctttgtaagc 300  
ttgtatgtgg ntgttgatct tttttttcct tacagacncc cataataaaa tatcctttcc 360  
nannnnannn nnnnnnnnnn aaaaaccctt tgggggggccc ccnnccccc nnnnnntttt 420

tnnntngnnn nnnttttttc ngggngccnn ntttggggcc ncnttgccnt tnnccccttg 480  
gggg 484

The "n" at location 473 is not explained above.

<210> 52118

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 119, 255, 259, 267, 268, 269, 270, 272, 278, 280, 283, 285,  
286, 287, 297, 299, 300, 301, 303, 315

<223> n = A,T,C or G

<400> 52118

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acatccacat gactggtttt taatgtagca ctgtggtata cattgcaaac atccgttcaa 180  
aatctgagtc ggagctaaaa ataaaaaatg aaaaaacaga aaaaaaaaaa aaaaaaaaaa 240  
aaaaattttg ggggnccnt gggccnnnn gntttttnan ttngnnnaat tttttntnn 300  
ngncccaatt tgggnencct tgcattttcc cccattgggg g 341

The "n" at location 317 is not explained above.

<210> 58993

<213> Artificial Sequence

<221> misc\_feature

<222> 1...31

<223> Synthetic primer

<400> 58993

gccagctcg aaattaaccc tcactaaagg g 31

The mandatory <211> and <212> numeric identifiers and their responses are missing above. The mandatory <220> numeric identifier is also missing (it has no response). Same errors in Sequence 58994.

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Application No: 10085783 Version No: 4.0

Input Set:

Output Set:

Started: 2008-03-24 16:20:26.584  
Finished: 2008-03-24 16:28:39.108  
Elapsed: 0 hr(s) 8 min(s) 12 sec(s) 524 ms  
Total Warnings: 2  
Total Errors: 7  
No. of SeqIDs Defined: 58994  
Actual SeqID Count: 58994

Error code	Error Description
E 342	'n' position not defined found at POS: 473 SEQID(37036)
E 342	'n' position not defined found at POS: 317 SEQID(52118)
E 249	Order Sequence Error <210> -> <213>; Expected Mandatory Tag: <211> in SEQID ( 58993 )
W 213	Artificial or Unknown found in <213> in SEQ ID (58993)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (58993)
E 249	Order Sequence Error <210> -> <213>; Expected Mandatory Tag: <211> in SEQID ( 58994 )
W 213	Artificial or Unknown found in <213> in SEQ ID (58994)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (58994)
E 250	Structural Validation Error; Sequence listing may not be indexable

# SEQUENCE LISTING

<110> ChondroGene Inc.

C.C.Liew, H.Zhang, W.Marshall

<120> Compositions and Methods Relating to Osteoarthritis

<130> 4231/2002

<140> US 10/085,783

<141> 2002-02-28

<150> US 60/305,340

<151> 2001-07-13

<150> US 60/275,017

<151> 2001-03-12

<150> US 60/271,955

<151> 2001-02-28

<160> 58994

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1

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accattttctg gcaattttcta cagaaccaag ttgaagtacc tggctttcct cccaagcgg 180
atgaacacca acccttcccg gggccctat ccctttccgg gcccgaagcc gatttttttg 240
ggcgaccg gggggattt ctcccaaaaa accaagcagg ccaggccgtc tctgaccgtt 300
aaggggtgtt acggaatcca ccgccatcga atgaaaagcg atgtgttct gctgcctatg 360
gtcgtcgtac taatgca 377
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<210> 2

<211> 209

<212> DNA

<213> Homo sapiens

<400> 2

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cgggtctgtat tcggccggtg ggggaccttg cgtcggagtg ggagggccag tttgcacca 120
agaggtggaa gaggacgggc tttaggctgg aagcgcctta gaggagccat ttttcccagg 180
atgcctgggt tgcttttata gtgtaacce 209
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<210> 3

<211> 499

<212> DNA

<213> Homo sapiens

<400> 3

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cgtccaagcc	ggccacctt	acagccttcc	tggtatacaa	ggctggcatg	actcacatcg	180
tgcggggagt	cgacaggccc	ggatcccagg	tgtaacacag	aaggaggtgg	tgtagagctc	240
tttccccatt	tgagacacac	cacctatggt	gtttgtggac	tttgtggtcc	tacgtggaca	300
cctctcgagg	tctccgcacc	ctacaagact	gtcttttgct	gagcacatca	gtgatgattg	360
cagaggcggt	tctatatgaa	tttgcataat	ctaagaggag	gctttaccag	tacttcagac	420
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atcgtgtcat	tgccacacc					499

<210> 4  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

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aaggctgtca	ttctacaggg	ctctaataat	gttgaactgt	tgctgagggc	aacagcaggt	180
tcacttacac	ttgttcttgt	agggtgggtg	ctttaaagg	gcaaattgat	ggggggaggc	240
acatattcga	tcacaacaca	tagagcctac	agcttgctt	cctttgtatt	cgccacttgg	300
gactagggtg	gcacgccc	ggtttcttgg	ggactggg	agtcttcaca	tagaaagctc	360
atatccatag	aaaggtagat	tttggatact	ccttcttttg	ctacgc		406

<210> 5  
 <211> 440  
 <212> DNA  
 <213> Homo sapiens

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ggggcatgca	atagcttaag	aattgctagg	attaaattaa	ggaaagtaa	gctactcaga	120
gcagcaggtt	ccacaagcac	aaactttaca	catttgtaca	cttttgaaat	gcactacatt	180
aacacattag	agcacacatt	tgaaatacag	gttctttac	atacactgag	aggttatata	240
cactcagttt	cacacgggca	cactctatac	ctctctaaag	gtaatatctc	aggctcttat	300
aggcagagta	ttttactctc	taaatctgcc	tctctgacca	caaaaaaaaa	aaaaacctgg	360
ggggtccttc	tgggcgcgg	ggcccatcga	tttccaccgc	ggggggacca	ggaagtccc	420
caatcgcta	tgtagtcata					440

<210> 6  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

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cttgagggaa	atcttgcgaa	accctcggtt	gaggacttat	gttagtttat	tgccacctca	180
cttggtgcac	cgagaactta	cttcttggga	ttaggtcact	tctttgattt	ctaataggat	240
gacttcaga	gagtgagatt	tgttatgtct	ggcttataaa	ggtaaatata	aatatataca	300
tacttaatct	aaaaaaaaa	aaaaacctcg	gggtctttt	tggacgccgg	ggccattc	360
attccccccg	ggtggggcca	aggtaagtac	cccaatcgcc	tat		403

<210> 7  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

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tcaaacaac cccccattta agggctctta gggttatagg ataaaattgg gtcctagag 180  
tttagccccc agtagagcta ggaaagcccc actcgtatat ttgttccctt c 231

<210> 8  
<211> 114  
<212> DNA  
<213> Homo sapiens

<400> 8  
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ttttattagt ctgaggacag ccattttttt tttttaaggg aaaatatcag tcag 114

<210> 9  
<211> 166  
<212> DNA  
<213> Homo sapiens

<400> 9  
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ccaggtttaa ataaggcagg aaagtccct tccctgctca cacaaaaacg gaaacatggg 120  
ggccaaagtg gattaggtga agtccccaat caagttttcc caatga 166

<210> 10  
<211> 297  
<212> DNA  
<213> Homo sapiens

<400> 10  
tttttttttt gaataataga ggcaatattt ttaatcagtt cccagataag gtcaattaga 60  
aacatgcact gctaaaatgc aagttacaat tcaaatggta ccataaataa ttaggggtaca 120  
cactgagcat tttcaggaat cagcttccat atcttgatcc actaaatggg gagggctctc 180  
aggacacggg cccttaccac tttatacaca gagggggagg aatttaaggg tcgcctcatg 240  
gacactttac agtaaatcgg gacacattta tttgagtaca ctatttagac atgtaaa 297

<210> 11  
<211> 218  
<212> DNA  
<213> Homo sapiens

<400> 11  
cttgatgaa gagaggaccg tgaggggtccc catgatgtcg gaccctaagg ctgttttacg 60  
ctatggcttg gattcagatc tcagctgcaa gattgcccag ctgcccttga ccggaaggca 120  
tgagtatcat ttttttcttg cccctgtaag tgcaccagaa tttgaccttg atagaggaga 180  
gcctcaacct ccgagttcat tcatgacata gaccgaga 218

<210> 12  
<211> 232  
<212> DNA  
<213> Homo sapiens

<400> 12  
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ccattgtctt cggaaacctt ggtgttagtt gaacctgata agttactttt gtgacctgaa 120

gttcaccatt aaaaggggat tacccaaggc aaaatcatgg gattggtata aaagggattg 180  
ttgggcaatc cattgcaata tattcaaaaa ttgaataatg ggccccataa aa 232

<210> 13

<211> 136

<212> DNA

<213> Homo sapiens

<400> 13

gcagaatcac atggcaaaag ctttgaaaat cataaagata taagttggtg tggctaagat 60  
ggaaacaggg ctgattcttg attcccaatt ctcaactctc cttttcctat ttgaatttct 120  
ttggggctgt agaaac 136

<210> 14

<211> 251

<212> DNA

<213> Homo sapiens

<400> 14

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ccagcccttg gacactattg ggaggagggc aagagtacac caatttgta aaagcaagga 180  
aaccacagat gtctcttcac tagtcattta gagcatggtt atcatccaag actactctac 240  
cctgcaacaa t 251

<210> 15

<211> 251

<212> DNA

<213> Homo sapiens

<400> 15

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tttttgtaga gtcaagtcac catgctggaa tgtacactga ttctctatg atgactgctt 180  
aactccccac tgtctgtcc cagagaggct ttccaatgta gctcagtaat tcctcttact 240  
ctacagacag g 251

<210> 16

<211> 162

<212> DNA

<213> Homo sapiens

<400> 16

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ctggaaggat gggccctaaa attcttgaaag tctgggtgat gctgccatt gttgatatgg 120  
gtcccgggca agccattttt tttttgagag gcttctcaga ct 162

<210> 17

<211> 225

<212> DNA

<213> Homo sapiens

<400> 17

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ctcttctcct attttcatcc tgcaagcaac tcaaaatatt taaaataaag ttacatatg 180  
tagttatttt caaatctttg ctttataagt attaagagat atgtg 225



<210> 18  
<211> 215  
<212> DNA  
<213> Homo sapiens

<400> 18  
ccctgacagc cagtatattg acaacaggag tgtgaacagt gcagggcttc acacggtgca 60  
gagagcaccg cgactgaacc acccgctga gcagatagac tctcactcaa gactacctca 120  
tagcgcacac ccctcgggaa aaccaccatc cgcttcagcc ttggcacctt agaatgtatt 180  
tagtacggct ttaagcagtg tgttattaca ccaca 215

<210> 19  
<211> 285  
<212> DNA  
<213> Homo sapiens

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tgaaggcccg caatttcttc cgctacaacg gacttattca acgccaagac tgtgggcgtg 180  
gagcccgcag accgacggca aaaggtgttc gttggtgggt caataagcgg agattcccgc 240  
cagcggaagc cttccacctt ctatgtgcgg agcaccaata acaag 285

<210> 20  
<211> 307  
<212> DNA  
<213> Homo sapiens

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gatggcgggc gccgcagcaa gtcggataag tcggggccaa gctgggccta ccgtaagatt 120  
cgcatccact tatgtcagcg ctgcgccggc agccaggggc tcagggactt cattgagaac 180  
cgctacgtgg agctgaggag ggcgaatccc gacctacca tcctaatecg cgaattctcc 240  
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acttcag 307

<210> 21  
<211> 138  
<212> DNA  
<213> Homo sapiens

<400> 21  
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ccaagtgaca ctttgctc 138

<210> 22  
<211> 138  
<212> DNA  
<213> Homo sapiens

<400> 22  
aaagaagtag caaattatct tcagtataat ccatggtaat gtatgcagta attcaaattg 60  
atctctctct caataggggt cttacaatc ttaaacttgg aacatcaatg gtttaatttc 120  
agggaccttt ttgggttt 138

<210> 23  
<211> 132  
<212> DNA  
<213> Homo sapiens

<400> 23  
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aagcagttac aa 132

<210> 24  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 24  
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agcaccaacc ccataaagtg acacagtaca aggagggcaa ggattctctg tacggccagg 120  
gaaagccgcc ttatgacaag aagcagagat gggtattggt ggcaaaactaa gccgattttc 180  
cggaaaaagg ctaaaactac acagaagagt tgtgctaagg ctctagtgcg ctgagcccca 240  
ctccaga 247

<210> 25  
<211> 213  
<212> DNA  
<213> Homo sapiens

<400> 25  
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gagcggcacc cacaacatgt accgggaata ccgggacctg aacaacgcag gcgctgtcac 120  
ccagtgtcac cgagacatgg gtgcccggca ccgcggccga gccacttca ttcagatcat 180  
gtaagggttg ggagatcgcg gccagcaagt gtc 213

<210> 26  
<211> 237  
<212> DNA  
<213> Homo sapiens

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aaatttttaa gtgctcagtg ttccaggcca gactacagag ggaggacac tttgctgtct 120  
ttcagtcctt tctttttaat tgtattgatt cttttcctcg gtaataaata agtgcatact 180  
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<210> 27  
<211> 132  
<212> DNA  
<213> Homo sapiens

<400> 27  
cctgtgccga aattcggcac gaggettgcg ggaatcccat tcaccettgt cettctcacc 60  
taaatectgc agcctggctt cctgacccaa tgaatccctt aggtgaattt cgtcagttca 120  
agagccctt gg 132

<210> 28  
<211> 110  
<212> DNA

<213> Homo sapiens

<400> 28

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<210> 29

<211> 257

<212> DNA

<213> Homo sapiens

<400> 29

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gagggctaaa tgaatat 257
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<210> 30

<211> 361

<212> DNA

<213> Homo sapiens

<400> 30

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tagggataca actcaggact ctaaagccag gtattaaact gacaactgtc agctcttctg 180
aatggcaaga acgtcaatgc tgggtggccac aagcttggtc taggactgga atttcaagca 240
taaataaata ctgtacattg ttttaatttta aactatttgc agcatagcta ccttcagagt 300
gtagtgatc tttaatgttg tatgtctgta tgcagtattg ctaatatgtt agccctcaga 360
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<210> 31

<211> 398

<212> DNA

<213> Homo sapiens

<400> 31

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gggccatcaa tgaggcctat aaggaggact atcacaagtc cctggaggat gctctgagct 120
cagacacatc tggccacttc aggaggatcc tcatctctct ggccacgggg catcgtgagg 180
aggaggagaa acctggacag gcacggaaga tgccagggtgc tcctgagatc ttggaaatag 240
cagacacacc agtgagacaa acttccttga gacacgtttc atgacgatct ctctaccgga 300
gctatcgaac ctccgagagt cttcaggagt tcatcaagat gacactatga cgtgagacac 360
atcagaggag atgtctggga tgtaggaatg catttctgtg 398
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<210> 32

<211> 210

<212> DNA

<213> Homo sapiens

<400> 32

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tatccagtgt ttggaatatt aaagtaattc atggattaat ttttagtggg ttagagcctc 180
taattaaagc ttaatatata ttaagtgcac 210
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<210> 33  
<211> 275  
<212> DNA  
<213> Homo sapiens

<400> 33  
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gctgctgaaa cagctggacg acctgaagggt ggagctgttc ccagctgcgc gtcgccaaag 120  
tacaggcgggt cggcctccaa gctctctaag atccgagtcg tccggaaatc cattgcccgt 180  
tttctaacag ttattaacca gactcagaag gaaacctcag gaaattctac aaggcaagag 240  
gtacaagccc ttggacctgc ggcctaagag acacg 275

<210> 34  
<211> 131  
<212> DNA  
<213> Homo sapiens

<400> 34  
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tgtataatgc tggccatttt aaaggggttt tctcaaaagg taaacctttt gttattgact 120  
tgtgtttttg c 131

<210> 35  
<211> 155  
<212> DNA  
<213> Homo sapiens

<400> 35  
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cctcctggct ccgtaggggtc ctcttggtcc ttggg 155

<210> 36  
<211> 150  
<212> DNA  
<213> Homo sapiens

<400> 36  
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tttttatatt caagaggtac ctattgcaaa 150

<210> 37  
<211> 199  
<212> DNA  
<213> Homo sapiens

<400> 37  
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tgctgttggc ttcagaacat gagcaggagg atcgttttat gctaggttat tgcaatcaat 120  
ggtgaaactc aacttaggga aagggttcca atgtataagg caatgggctg cttctcccca 180  
atcctcccta acaatttgt 199

<210> 38  
<211> 315  
<212> DNA  
<213> Homo sapiens

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ttaatgccca caccttcctt gcgtaatgga ggacaatttg tgatttccat taaggccaac 180  
ctcaattact tcacaagcgt aagccgaggc cgggtgtttt ctcggaagtg aaaaggatgc 240  
aacaaggaga caatgaggcc gcaggagcag gttgacctt agccaatatt aaagagacca 300  
attccgtgcc gtggg 315

<210> 39  
<211> 160  
<212> DNA  
<213> Homo sapiens

<400> 39  
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ggctctgtgt tcacagcaac ctgacagtgg cgttcggggg cgttggtccc gtacgtagag 120  
gacgtggagc gtcacaacag gcagtggagc ccaacgtcag 160

<210> 40  
<211> 220  
<212> DNA  
<213> Homo sapiens

<400> 40  
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ccagccagtc ccaacagcat aacagggctt tcttggcagc tgtattcttg agtctggatg 180  
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<210> 41  
<211> 355  
<212> DNA  
<213> Homo sapiens

<400> 41  
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tgtgaacagg tccttgggtc acttctcacc ttcctaagct gatggaggcc tggcttagca 120  
gccggaagcc taccaggcac tgtgcactat gagcatgtgt kcaaagagta ctctctctga 180  
gccaaagcat gectgtcat ctccctgtg gcagaaggga gccctgaggg ggcctcttcc 240  
ataggctggg cccgagcatt gagtcagggt ggctgggtag gctttggccg cacctcagag 300  
gtccagacat actttgatga gtaatttccc catctgggta ctatttctg gaagg 355

<210> 42  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 42  
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ctgcacgraa cataccggtg agttgggcaa gacttttata gagtaccggt cacagaagac 180  
ctcacgctc cccatcattt acatttcacc catggacata ggagggcccg agcagggaatt 240  
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tttgcaaacc aaaggaccaa gtatttccat 330

<210> 43

<211> 210  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 18  
<223> n = A,T,C or G

<400> 43  
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gcttttaact ctggtaaagt ggatattttt gccatcaatg acccttcaat tgacctaaact 180  
tacctgggtt acatttccca atatgttccc 210

<210> 44  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 44  
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ttcttttccc ttcagtatgc cttagggatc acagggatga atataggggc accgtttata 180  
cctaaggatc caccttatac tttccttagg gttcacacat tagggtttta aggaaagggg 240

<210> 45  
<211> 139  
<212> DNA  
<213> Homo sapiens

<400> 45  
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tcccagaaca tacacatatc actgccaaaa atagcattgc atacatggat caggccagtg 120  
ggaatgtaaa gaaggccct 139

<210> 46  
<211> 320  
<212> DNA  
<213> Homo sapiens

<400> 46  
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cagtgacagc atagtgactc ctactatacg gacccgtctt cccacatcct tccttagctg 180  
tcacttctcc tggagcagga gacagctcca ggtcctgcga agtgtgggca gttcttacct 240  
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ccggagggaat cctagggttag 320

<210> 47  
<211> 136  
<212> DNA  
<213> Homo sapiens

<400> 47  
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